## ISSUE SLIP STAPLE AREA (for additional cross references)

|   | DATE     |  |  |  |  |  |
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|   | 3        |  |  |  |  |  |

## INDEX OF CLAIMS

| Rejected                     | N Non-elected  |
|------------------------------|----------------|
| = Allowed                    | I Interference |
| — (Through numeral) Canceled | A Appeal       |
| → Restricted                 | O Objected     |

| Cla        | im       |              | 7        | V         | 7                                                | Pe       | e        |                                                  |                                                  |          |                                                  |     | Cla      | im       |                                                  |             |          |                                                  | Date                                             | 9        |                |                                                  |          |          | 1   | Cla   | im       |          |          |          | Dat      | е                                                |          |          |          |
|------------|----------|--------------|----------|-----------|--------------------------------------------------|----------|----------|--------------------------------------------------|--------------------------------------------------|----------|--------------------------------------------------|-----|----------|----------|--------------------------------------------------|-------------|----------|--------------------------------------------------|--------------------------------------------------|----------|----------------|--------------------------------------------------|----------|----------|-----|-------|----------|----------|----------|----------|----------|--------------------------------------------------|----------|----------|----------|
|            | Inal     | 10.61.6      | 7.6.0    | 20.0      | 8.27.02                                          | 第062人    | 3        |                                                  |                                                  |          |                                                  |     | _        | Original |                                                  |             |          |                                                  |                                                  |          |                |                                                  |          |          |     |       | Original |          |          |          |          |                                                  |          |          |          |
| Ting.      | )rig     | 1.           | 7.6      | Ž.        | ů                                                | N,       | 3        | 1                                                |                                                  |          | ı                                                |     | Final    | 튑        |                                                  | I           | - 1      |                                                  |                                                  |          |                | l                                                | - 1      |          | İ   | Final |          | 1        | - 1      |          |          |                                                  | - 1      | , 1      |          |
| ~          | Original | ;            | •        | <u> </u>  | 20                                               | •        | 2        |                                                  |                                                  | $\dashv$ | ᅱ                                                |     | ۳        | 51       | -                                                | -           | -        | 1                                                | $\dashv$                                         | _        |                | _                                                |          | ᅥ        | ı   |       | 101      | Н        | _        | $\dashv$ | $\dashv$ | $\dashv$                                         | $\dashv$ | _        | -        |
| -          | Ĭ        | H            |          | $\vdash$  | $\vdash$                                         | -        | Н        |                                                  | ┪                                                | -        | $\dashv$                                         |     | ┢        | 52       | +                                                | $\dashv$    | _        |                                                  | -                                                | _        | $\dashv$       | $\dashv$                                         | $\dashv$ | ᅥ        | ŀ   |       | 102      |          |          | _        | 一        | 一                                                |          |          | ┢        |
| ᅱ          | -        | ╁╌           | _        | -         | -                                                | _        | $\vdash$ | -                                                | -                                                |          |                                                  |     | _        | 53       | +                                                | $\dashv$    | _        | -                                                | -                                                | _        | ᅦ              | _                                                | -        | ᅥ        | ı   |       | 103      |          |          | $\neg$   |          | $\neg$                                           |          |          | H        |
| -          | Ŧ        | -            | -        | -         | -                                                |          | Н        |                                                  | -                                                | $\dashv$ | $\dashv$                                         |     | -        | 54       | -                                                |             | ┪        |                                                  | $\dashv$                                         | -1       | $\dashv$       |                                                  | -        | $\dashv$ | ŀ   |       | 104      | Н        |          | -        | $\dashv$ | -                                                |          | Н        | ┝        |
| $\dashv$   | Ţ        | ├-           |          | -         | -                                                | $\vdash$ | Н        | $\neg$                                           | $\dashv$                                         |          | -                                                |     | H        | 55       | $\dashv$                                         | -           | ┪        | -1                                               | $\dashv$                                         |          | $\neg \dagger$ | $\neg$                                           | _        | ᅥ        | ŀ   |       | 105      | $\vdash$ |          | _        | _        |                                                  |          |          | H        |
| $\dashv$   | -[       | <del> </del> | H        | -         | H                                                | -        | -        |                                                  |                                                  |          | 一                                                |     | ┢        | 56       | -                                                | -           | $\dashv$ |                                                  | -                                                | -        | -              |                                                  | _        | $\dashv$ | ŀ   |       | 106      | Н        |          |          |          |                                                  | _        |          | ┢        |
| -          | 7        | -            | -        | -         | -                                                | -        | $\vdash$ |                                                  |                                                  | $\dashv$ | $\dashv$                                         |     | -        | 57       | _                                                | $\neg$      |          | 一                                                | $\dashv$                                         | _        | -              |                                                  | 7        | $\dashv$ | ŀ   | _     | 107      |          |          | _        | _        |                                                  | _        | _        | ┢        |
| <u>.</u>   | H        |              |          | -         | <del>                                     </del> | -        | Н        | -                                                | $\dashv$                                         | $\dashv$ | -                                                |     | -        | 58       | _                                                |             |          |                                                  | $\neg$                                           |          |                | _                                                |          | _        | Ì   | _     | 108      |          |          |          |          |                                                  | _        | _        | ┪        |
|            |          | 1-           |          | -         | <del>                                     </del> |          |          |                                                  | 7                                                | $\dashv$ |                                                  |     | 1        | 59       |                                                  | _           |          |                                                  |                                                  | 寸        |                |                                                  | _        |          | Ì   |       | 109      | П        |          |          | _        |                                                  |          |          |          |
| _          |          | 1            | ┢        | 1         | <u> </u>                                         |          |          | . 1.                                             |                                                  |          | ٠,                                               |     |          | 60       | $\neg$                                           |             |          |                                                  |                                                  |          |                |                                                  |          |          | Ì   |       | 110      |          |          |          |          |                                                  |          |          |          |
|            | 10<br>11 |              | /        | -         | ٠.                                               |          |          | _                                                |                                                  |          |                                                  |     | _        | 61       |                                                  |             |          |                                                  |                                                  |          |                |                                                  |          |          |     |       | 111      |          |          |          |          |                                                  |          |          | _        |
| _          | Ų.       | V            | -        | 1         | <u> </u>                                         |          | -        | -                                                |                                                  |          |                                                  |     |          | 62       | $\neg$                                           |             |          |                                                  |                                                  |          |                |                                                  |          |          |     |       | 112      |          |          |          |          |                                                  |          |          | Г        |
|            | 1        | V V          |          | -         |                                                  | ┢        |          | _                                                |                                                  |          | ٠.                                               | l   |          | 63       |                                                  |             |          | $\Box$                                           |                                                  | $\neg$   |                |                                                  |          |          | . 1 |       | 113      |          |          |          |          |                                                  |          | 1        |          |
| _          | 4        | \$T          |          | 1         |                                                  |          |          | 7                                                |                                                  |          |                                                  |     |          | 64       |                                                  |             |          |                                                  |                                                  |          |                |                                                  | $\neg$   |          |     |       | 114      |          |          |          |          |                                                  |          | $\Box$   | Г        |
|            | 15       | fΥ           | 1        | 1         | T                                                |          | ļ.,      |                                                  | H                                                |          |                                                  | ĺ   |          | 65       |                                                  |             |          |                                                  |                                                  |          |                |                                                  |          | $\neg$   |     |       | 115      |          |          |          |          |                                                  | _        |          | Г        |
|            | 16       | Ħ            | -        | 0         | Η-                                               | -:       | 1        | 7                                                | $\overline{}$                                    | ┮        | Ŧ                                                | - 4 |          | 66       |                                                  |             |          |                                                  |                                                  |          |                |                                                  | П        | ヿ        |     | _     | 116      |          |          |          |          |                                                  |          |          | Г        |
| _          | 1        | 11           | <u> </u> | 1         | ✝                                                | Ť        | $\vdash$ |                                                  | _                                                |          |                                                  |     |          | 67       |                                                  |             |          |                                                  |                                                  |          |                |                                                  |          |          |     |       | 117      | Г        |          |          |          |                                                  |          |          | Г        |
|            | 1        | 1            | 1.       |           | 1                                                |          |          | Ė                                                | -                                                |          | 3.7                                              |     | Г        | 68       | ,                                                | $\Box$      |          | 1.                                               |                                                  |          | -7             | -                                                |          |          |     | _     | 118      | Г        | -        | ·        |          |                                                  |          |          | 1        |
| _          | 1        | V            | -        | 1         | 1                                                | -        | ,        |                                                  |                                                  | -        |                                                  | ĺ   |          | 69       |                                                  |             |          |                                                  |                                                  |          |                |                                                  |          |          | .   |       | 119      |          |          |          |          |                                                  |          |          |          |
|            |          |              | :        | V         | ヤ∇                                               | V        | V        |                                                  |                                                  |          |                                                  |     | Ė        | 70       |                                                  |             | - 1      | T.                                               |                                                  |          |                | -                                                |          | $\neg$   |     |       | 120      |          |          |          |          | -                                                |          |          | 1        |
| :          | 7        | 1.           | Ε.       | +         | 1                                                | 1        | H        | -                                                |                                                  | H        |                                                  | -   | -        | 71       | $\vdash$                                         |             |          | Н                                                | -                                                | Н        | 1              | -                                                |          | $\dashv$ | -   | _     | 121      | $\vdash$ | 一        | $\vdash$ | $\vdash$ | $\vdash$                                         | _        | -        | ┢        |
| ÷          | 3        | +-           | Н        | H         | H                                                | Н        | +        | ┢                                                | -                                                | Н        |                                                  | ł   |          | 72       |                                                  |             | _        | Н                                                | _                                                | _        | _              |                                                  | Н        |          |     |       | 122      | ╁        | ╌        | -        |          | $\vdash$                                         | _        | ┰        | $\vdash$ |
|            | 2 2      | -            | H        | #         | Ħ                                                | Н        | tu       | <b>!</b>                                         |                                                  | 1        | -                                                |     | H        | 73       |                                                  |             |          |                                                  | -                                                | _        |                | -                                                |          |          | Ì   |       | 123      | +        | _        | _        |          |                                                  | <u> </u> | Г        | Г        |
| 2          | 24       | A 1          | H        | V.        | V                                                | V        | V        | ۴                                                |                                                  | **       | -                                                | 1   | $\vdash$ | 74       | H                                                | ┝╌          |          | -                                                |                                                  | _        | -              | H                                                |          | Н        | . 1 |       | 124      | $\vdash$ | -        | _        |          |                                                  | _        |          | T.       |
| <u>.</u>   | 24       |              | H        | N         | N                                                | 忧        | 'n       |                                                  | 7.                                               | 15.      | Τ.                                               | ٠.  | $\vdash$ | 75       |                                                  | _           |          |                                                  | Н                                                |          |                | -                                                | Н        |          |     |       | 125      | T        | $\vdash$ |          | -        |                                                  | 7        | 广        | 1        |
| ,          | 26       | 1            | ╫        | 15        | H                                                | N        | P        |                                                  | 1                                                | -        |                                                  |     |          | 76       | Н                                                |             |          | ,                                                |                                                  | _        | $\overline{}$  | $\vdash$                                         | Н        |          |     | _     | 126      | 1        |          | _        | _        |                                                  | _        |          | Г        |
|            | 26<br>27 |              | V        | a         | 7                                                | N        | h        | - \                                              | 1.                                               | •        | ,                                                |     | -        | 77       |                                                  | <del></del> | -        |                                                  | Г                                                |          | -              |                                                  |          |          |     |       | 127      | T        |          | $\vdash$ | $\vdash$ |                                                  | _        | Г        |          |
| ₹          | 28       | ⇟            | <b>X</b> | +         | 1                                                | Ė        | ゼ        | -                                                | -                                                |          | -                                                | ١,  | ·一       | 78       |                                                  | $\vdash$    |          | -                                                | _                                                |          |                |                                                  |          | П        |     |       | 128      | Τ-       | _        | _        |          |                                                  |          |          | Γ        |
| 5          | 28       |              | 1.74     | .,,       |                                                  | L.,      | V        | -                                                |                                                  |          |                                                  | 1.  |          | 79       | П                                                | ., .        |          | - 1                                              |                                                  |          |                |                                                  |          | П        |     | _     | 129      | 1        |          |          |          |                                                  |          |          | Τ        |
| ファベー・「東」が、 | 30       |              | 4        |           |                                                  | -        | ۲        |                                                  | -                                                |          | 7,                                               |     |          | 80       |                                                  | -           |          |                                                  |                                                  | $\vdash$ | 7.             | _                                                |          | П        |     |       | 130      | 1        |          |          | _        |                                                  | _        | ļ.       |          |
|            | 3        |              | -        | <b>†</b>  |                                                  | -        | 1.       |                                                  | <del> </del>                                     | Ť        |                                                  | 1   | -        | 81       |                                                  | -           |          |                                                  | _                                                | _        | $\vdash$       | $\vdash$                                         | П        | П        |     |       | 131      |          | Г        | <u> </u> |          | Г                                                |          | $\vdash$ | Τ        |
|            | 32       |              |          |           |                                                  |          |          | 1                                                |                                                  |          | -                                                |     |          | 82       |                                                  |             |          |                                                  | ·                                                | -        |                |                                                  |          |          |     |       | 132      | Τ.       |          |          | 1.       |                                                  |          |          | Τ        |
| Į,         | 33       |              | 8        | 7         | 4                                                | (3       | 17.4     | 5 6                                              | 10.0                                             |          | 2.10                                             |     |          | 83       |                                                  | 17          |          |                                                  |                                                  |          |                | 7                                                | П        |          |     | ,     | 133      |          |          |          |          | ·                                                | Γ        | Г        | T        |
|            | 34       |              |          | 80        |                                                  |          | 13.      | 7                                                |                                                  |          |                                                  | -   | F        | 84       | 1                                                | ,3,         |          | -                                                |                                                  |          |                |                                                  |          |          |     | -     | 134      | 1        |          |          |          |                                                  |          | Г        | Γ        |
|            | 3.       | 1            | 1        | 1         | 1                                                |          | 1.0      | <del>                                     </del> | -                                                | 1        |                                                  | 1   |          | 85       |                                                  |             |          |                                                  |                                                  |          |                |                                                  |          |          |     |       | 135      | 1        |          |          |          | T                                                |          | ·        | Г        |
|            | 3€       |              | ,        | $\vdash$  | 1                                                | 1        | 1        |                                                  | <del>                                     </del> |          | _                                                | ١.  | Г        | 86       |                                                  | Г           |          |                                                  |                                                  |          |                |                                                  | П        |          |     |       | 136      |          | Γ        |          | Γ        |                                                  |          | Г        |          |
|            | 37       | 1            | 1.       |           | 1                                                | 17       |          | 1                                                | <del>                                     </del> |          | ┰                                                | 1   |          | 87       |                                                  |             |          |                                                  |                                                  |          |                |                                                  |          |          |     |       | 137      | Т        |          |          | $\vdash$ |                                                  |          |          | Ī        |
| ;          | 38       |              | 1        | 1         | 1                                                | Т        | 1        |                                                  |                                                  | $\vdash$ | 7                                                | 1   | 1.       | 88       |                                                  |             |          |                                                  |                                                  |          |                |                                                  |          |          |     |       | 138      |          |          |          |          | Π                                                |          | Г        | Г        |
| ١,         | 39       |              | -        |           | T                                                |          |          | 15                                               | 1                                                | 1.       | ·                                                | 1   |          | 89       |                                                  | 1           |          |                                                  |                                                  |          | ×              | $\Box$                                           |          |          |     |       | 139      |          | П        |          | Г        | Г                                                |          |          |          |
|            | 40       | -            |          | T         | T                                                |          |          |                                                  | Г                                                |          | Γ                                                | 1   |          | 90       |                                                  |             |          |                                                  |                                                  |          |                |                                                  |          |          |     |       | 140      |          |          | Γ        |          | Γ                                                |          | Γ        |          |
| •          | 4        | _            | 1        |           | T                                                | 1        | 1.       | -                                                | Т                                                | 1        | Г                                                | 1   |          | 91       |                                                  | Г           |          | Г                                                |                                                  |          |                |                                                  | П        |          |     |       | 141      | Ť        | Г        | Ī        |          | Γ                                                |          | Γ        | Ī        |
| i e        | 42       |              | 1        | t         | 1:                                               | +        | 1        | $\vdash$                                         | _                                                | $\vdash$ | $\vdash$                                         | 1   | $\vdash$ | 92       | $\vdash$                                         | -           |          |                                                  |                                                  | Г        | $\vdash$       | -                                                | $\Box$   |          |     |       | 142      | 1        | ·        | 1        | Г        |                                                  | Γ        | Г        | t        |
|            | 43       |              | 1        | T         | Ť                                                | t        | t        | $\vdash$                                         | 1                                                |          | <del>                                     </del> | 1   |          | 93       | Н                                                | 7           | Ė        | Ι                                                | ┢                                                | $\vdash$ | Г              | Г                                                | П        |          |     | _     | 143      | $\top$   | Г        | <u> </u> | Г        |                                                  | <u> </u> | Т        | Τ        |
| _          | 4        |              | 1        | 1         | T                                                | T        | †        |                                                  |                                                  | <u> </u> | Г                                                | 1   |          | 94       | Г                                                | 17          | _        | 1                                                | $\vdash$                                         | Г        |                |                                                  |          |          |     |       | 144      | T        | Г        |          | Γ        | Γ                                                |          | Γ        | Γ        |
| -          | 45       | ;            | ÷        | H         | ۲                                                | t        | $t^-$    | 1                                                | Ė                                                | Ė        | <u> </u>                                         | 1   | $\vdash$ | 95       |                                                  | /           | $\vdash$ |                                                  | $\vdash$                                         | Ι-       | Т              |                                                  | П        |          |     |       | 145      | T        | 1        |          |          | <del>                                     </del> |          | Г        | Τ        |
| _          | 46       |              | 1        | T         | +                                                | T        | T        | T                                                | T                                                |          |                                                  | 1   |          | 96       | 1-1                                              | Г           | Γ        |                                                  |                                                  | ┪        | Г              |                                                  | П        | П        |     |       | 146      | 1        | Γ        |          |          | Г                                                |          | Г        | Γ        |
| خدن        | 4        |              | T        | T         | T                                                | 1        | $\top$   | <del>                                     </del> | $\vdash$                                         |          |                                                  | 1   |          | 97       |                                                  |             | Г        | $\vdash$                                         | <del>                                     </del> | <u> </u> | Г              |                                                  | П        |          |     |       | 147      | 1        | Γ        | <u> </u> | Г        |                                                  |          | Γ        |          |
|            | 46       | ıL.          | †        | +         | t                                                | T        | +        | $\vdash$                                         | $\vdash$                                         | 1        | 1                                                | 1   |          | 98       | <del>                                     </del> | <u> </u>    | Т        | T                                                | T                                                | Г        |                | <del>                                     </del> |          |          |     |       | 148      | †        | Τ        | П        | Г        |                                                  |          | Г        |          |
|            | 49       | 1            | 1        | $\dagger$ | T                                                | t        | +        | T                                                | <del>                                     </del> | 1        | T                                                | 1   |          | 99       |                                                  |             | Γ        |                                                  | Г                                                |          | Γ              |                                                  | П        |          |     |       | 149      | T        | Г        |          | Г        | Г                                                |          | Γ        | Γ        |
|            | 50       |              | +        | +-        | +-                                               | +-       | +-       | <del>† -</del>                                   | +                                                | 1        | T                                                | 1   | $\vdash$ | 100      |                                                  | Τ-          | _        | <del>                                     </del> | <del>                                     </del> | 1        | 1              | <del>                                     </del> | $\vdash$ | _        |     |       | 150      | 1        | Ι_       | 1        | <u> </u> | 1                                                | _        | Г        | Γ        |

If more than 150 claims or 10 actions staple additional sheet here

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